

Recovery Plan Action Status

Plan Name: Draft Recovery Plan for Chaparral and Scrub Community Species East of San Francisco Bay, California

Plan Status: Draft

Plan Date: 07-Apr-03

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	1	Form Recovery Implementation Team	Not Started			California Department of Transportation, County governments, East Bay Regional Park District, University of California at Berkeley, California Native Plant Society, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	All stakeholders will be invited to participate
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	10	Develop a tracking process for the completion of recovery tasks and achievement of delisting criteria	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	11.3	Refine delisting criteria	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	13	Produce and distribute an addendum to this recovery plan every 5 years	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Addendum produced every 5 years starting in year 5
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.1.1.1	Provide schools with species and recovery effort information	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	\$500 to revise every five years
Pallid manzanita (Arctostaphylos pallida)	2	2.1.1.2	Create and distribute Arctostaphylos pallida pamphlet	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	2.1.2	Communicate with the public on recovery status	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	2.1.3.1	Provide information to public on fire issues	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, Hills Emergency Forum, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Provide information every 3 years until species are recovered

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.1.3.2	Provide information to the CDF vegetation management program	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	1	2.1.4.1	Provide worker awareness training for Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.2	Develop and implement economic or other incentives	Not Started			County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Cost and duration depend on nature of incentives developed
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.3.1	Work with groups that provide policy makers with policy recommendations	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.3.2	Encourage and assist development and implementation of Habitat Conservation Plans	Ongoing Current			County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Several HCPs and a Conservation Strategy have been completed or initiated that include the Alameda whipsnake: East Contra Costa HCP, PG&E HCP, EBMUD, and the East Alameda County Habitat Conservation Strategy.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.4.1	Make available life history research prioritization list	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	2.4.2	Assist in providing research opportunities and funding	Not Started			East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Costs reflect grantwriting and administrative support expenses for research. Also see Task 7 for specific research projects; other studies may be developed as well. Additional research needs for A. pallida, expected after Alameda whipsnake recovery, cannot be quantified at this time.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.1	Inventory and coordinate existing spatial data	Ongoing Current	FY 2000 - FY 2004		California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, Alameda and Contra Costa Biodiversity Working Group, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Mapping complete for pallid manzanita; whipsnake mapping not initiated. However, ARPA maps have not been compiled into a single map. East Bay Regional Parks GPSed all of their plants in 2004, including canopy cover. The City of Oakland GPSed all the known plants on their park properties and within the neighborhood adjacent to Huckleberry Preserve.

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.2	Identify data gaps and procure additional data	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.3	Analyze results from Geographic Information System (GIS) mapping exercise	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	3.2	Establish and utilize centralized database	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Time for establishment 1 year; to use continual. Availability will be to Implementation Team.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	3.3	Provide updated information and funding to fire model programs	Not Started			U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.1	Implement immediate management actions to return or mimic natural disturbance regimes	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, Local and Regional Fire Jurisdictions (East San Francisco Bay area), U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on mapping assessment Task 3.1.3 All listed landowners equally responsible
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.2	Incorporate recovery goals and conservation strategies into CDF wildlife protection zones	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.3	Develop Memoranda of Understanding	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Costs reflect expenses of MOU review by multiple agencies, meetings, presentations to management, legal review, etc.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.4	Ensure current or future uses of pesticides, herbicides, insecticides, fungicides and rodenticides do not adversely impact ecosystem	Not Started			California Department of Parks and Recreation, California Department of Pesticide Regulation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	4.2.1	Implement management actions which combine and coordinate management tasks from overlapping recovery plans	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Also Responsible Parties from overlapping recovery plans
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.2.2	Integrate land use needs and fire management into immediate management actions	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on mapping assessment in Task 3.1.3

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	4.2.3	Combine surveys for special status species when appropriate	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Also Responsible Parties from overlapping recovery plans
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.3.1	Coordinate on projects included in regional transportation improvement program	Not Started			California Department of Transportation, County governments, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Costs reflect establishment of an FTE to coordinate ESA consultations for highway/ transportation projects in Bay Area.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.3.2	Coordinate with agencies for tracking of habitat fragmentation	Not Started			County governments, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost depends on assessment of needs in Task 3.1.3. Share costs with US Army Corps of Engineers and US Geological Survey
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.1.1	Determine staffing levels appropriate for plan implementation	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.1.2	Fund and hire additional staff	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost & task duration dependent on Task 5.1.1

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Pallid manzanita (Arctostaphylos pallida)	1	5.2.1	Protect populations of Arctostaphylos pallida at Huckleberry Ridge area in perpetuity	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Tasks 5.1.1, 8.1.1, 8.1.3
Pallid manzanita (Arctostaphylos pallida)	1	5.2.2	Protect populations of Arctostaphylos pallida at Sobrante Ridge area in perpetuity	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Tasks 5.1.1, 8.1.7
Pallid manzanita (Arctostaphylos pallida)	2	5.2.3.2.1	Reduce competition from both native and nonnative plants	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Implementation linked to management plans developed under Task 8.1
Pallid manzanita (Arctostaphylos pallida)	2	5.2.3.2.2	Reduce threat of hybridization	Not Started			East Bay Regional Park District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Implementation linked to management plans developed under Task 8.1

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Pallid manzanita (Arctostaphylos pallida)	1	5.2.3.3	Reduce threat of fungal disease	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Task duration and cost dependent on management recommendations from Task 7.6
Pallid manzanita (Arctostaphylos pallida)	2	5.2.3.4	Reduce threat of herbicide spraying	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Implementation linked to management plans developed under Task 8.1
Pallid manzanita (Arctostaphylos pallida)	2	6.1.1	Establish survey program and protocol for covered plant species	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.1	Conduct surveys of historical and potential habitat within units as determined from tasks 3.1.1 to 3.1.3 in Alameda County for Arctostaphylos pallida, Eriogonum truncatum and Berkeley kangaroo rat	Not Started			East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.24	Conduct surveys of historical and potential habitat within units as determined from tasks 3.1.1 to 3.1.3 in Contra Costa County for Arctostaphylos pallida, Eriogonum truncatum and Berkeley kangaroo rat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida)	2	6.2.26	Conduct surveys of potential habitat north of Briones (Contra Costa County) for Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.27	Conduct surveys of potential habitat east of Wildcat Creek (Contra Costa County) for Arctostaphylos pallida	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.3	Conduct surveys of historical and potential habitat at Exeter chaparral (Alameda County) for Arctostaphylos pallida	Not Started			City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.37	Conduct surveys of historical and potential habitat at Flicker Ridge (Contra Costa County) for Arctostaphylos pallida	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.4	Conduct surveys of historical and potential habitat adjacent to Huckleberry preserve (Alameda County) for Arctostaphylos pallida	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.5	Conduct surveys of potential habitat south of Joaquin Miller Park (Alameda County) for Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	6.2.6	Conduct surveys of potential habitat near San Leandro Reservoir (Alameda County) for Arctostaphylos pallida	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida)	2	6.2.7	Conduct surveys of potential habitat at Anthony Chabot Park (Alameda County) for Arctostaphylos pallida	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.1	Determine how to best re-establish historical disturbance regime	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Research targeting major threats
Pallid manzanita (Arctostaphylos pallida)	1	7.2	Research seed germination treatments for Arctostaphylos pallida	Ongoing Current			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Steve Edwards from EBRPD Botanical Garden has done this and knows a substantial amount about this. However, it appears that it is easier to clone A. pallida than it is to germinate seeds in the lab. Also, seeds will germinate in wild as a result of soil disturbance.
Pallid manzanita (Arctostaphylos pallida)	1	7.3	Perform prescribed burns for Arctostaphylos pallida under experimental conditions	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Research targeting major threats
Pallid manzanita (Arctostaphylos pallida)	2	7.4	Determine reproductive biology of Arctostaphylos pallida	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	7.5	Perform demographic studies determining limiting life stages for Arctostaphylos pallida	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Pallid manzanita (Arctostaphylos pallida)	1	7.6	Conduct research into all pathogens of Arctostaphylos pallida, including ways to prevent their spread	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Research targeting major threats
Pallid manzanita (Arctostaphylos pallida)	2	7.7	Develop propagation techniques for Arctostaphylos pallida	Not Started			Rancho Santa Ana Botanic Garden, University of California at Berkeley, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	7.8	Perform genetic studies on Arctostaphylos pallida	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.1.1	Develop management plan for all East Bay Regional Park District lands in Huckleberry Ridge area	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.1.2	Implement management plan for all East Bay Regional Park District lands in Huckleberry Ridge area	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on 8.1.1
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.3	Develop management plan for all East Bay Municipal Utility District lands in Huckleberry Ridge area	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.4	Implement management plan for all East Bay Municipal Utility District lands in Huckleberry Ridge area	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.3

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Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.5	Develop management plan for City of Oakland land at Joaquin Miller Park	Ongoing Current			City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	A plan for Chabot Space and Science Center has been developed. However, implementation has not begun.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.6	Implement management plan for City of Oakland land at Joaquin Miller Park	Not Started			City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.5
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.7	Develop management plan for East Bay Regional Park District land at Sobrante Ridge	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.8	Implement management plan for East Bay Regional Park District land at Sobrante Ridge	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.7
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.2.1	Establish monitoring protocols for the species covered in this plan	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	8.2.2	Monitor all populations of Arctostaphylos pallida	Ongoing Current			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	All populations have been surveyed over the past several years.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.2.5	Perform long-term ecological monitoring of chaparral/scrub habitat	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, East Bay Municipal Utility District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost depends on scope assessed in Task 3.1.3. Use information from Task 4.3.2
Pallid manzanita (Arctostaphylos pallida)	1	9.1.1.1	Collect and store seed for Arctostaphylos pallida	Not Started			East Bay Regional Park District, Rancho Santa Ana Botanic Garden, University of California at Berkeley, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida)	2	9.1.2	Propagate Arctostaphylos pallida within botanical facilities	Not Started			Rancho Santa Ana Botanic Garden, University of California at Berkeley, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 7.7
Pallid manzanita (Arctostaphylos pallida)	2	9.1.3	Enhance existing Arctostaphylos pallida populations	Ongoing Current			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	A local group, Friends of Sausal Creek Watershed, have been enhancing the "Big Trees" population for a few years now. It looks healthier than most of the other populations. Also, the Chabot site now has a management plan, but getting the implementation off the ground is proving to be difficult.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida)	2	9.1.4.1	Initiate reintroduction or introductions where appropriate for Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on locations to be identified
Pallid manzanita (Arctostaphylos pallida)	2	9.1.4.2	Transplant Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on locations to be identified
Pallid manzanita (Arctostaphylos pallida)	2	9.1.4.3	Monitor augmented sites of Arctostaphylos pallida	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on locations to be identified